

ICO Generator v1.0.0

Help Document

Rev 1.0

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PATENT PENDING

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1 Introduction

1.1 Document Overview

This document provides a general overview of ICO Generator features and procedures.

2 Software Overview

The Proculus ICO Generator is a software tool used to create icon files for use with the Proculus LCMs.

2.1 Basic Operation

The ICO Generator tool lets the user add image files (maximum resolution: 255x255 px) and open existing .ICO files, reorder and preview the icons, and generate a new .ICO file.

It is important to note that Proculus LCM's .ICO file share the Microsoft Windows' .ICO extension, but are in fact different file formats. It is not possible to import MS Windows .ICO files into ICO Generator, nor to generate MS Windows .ICO files.

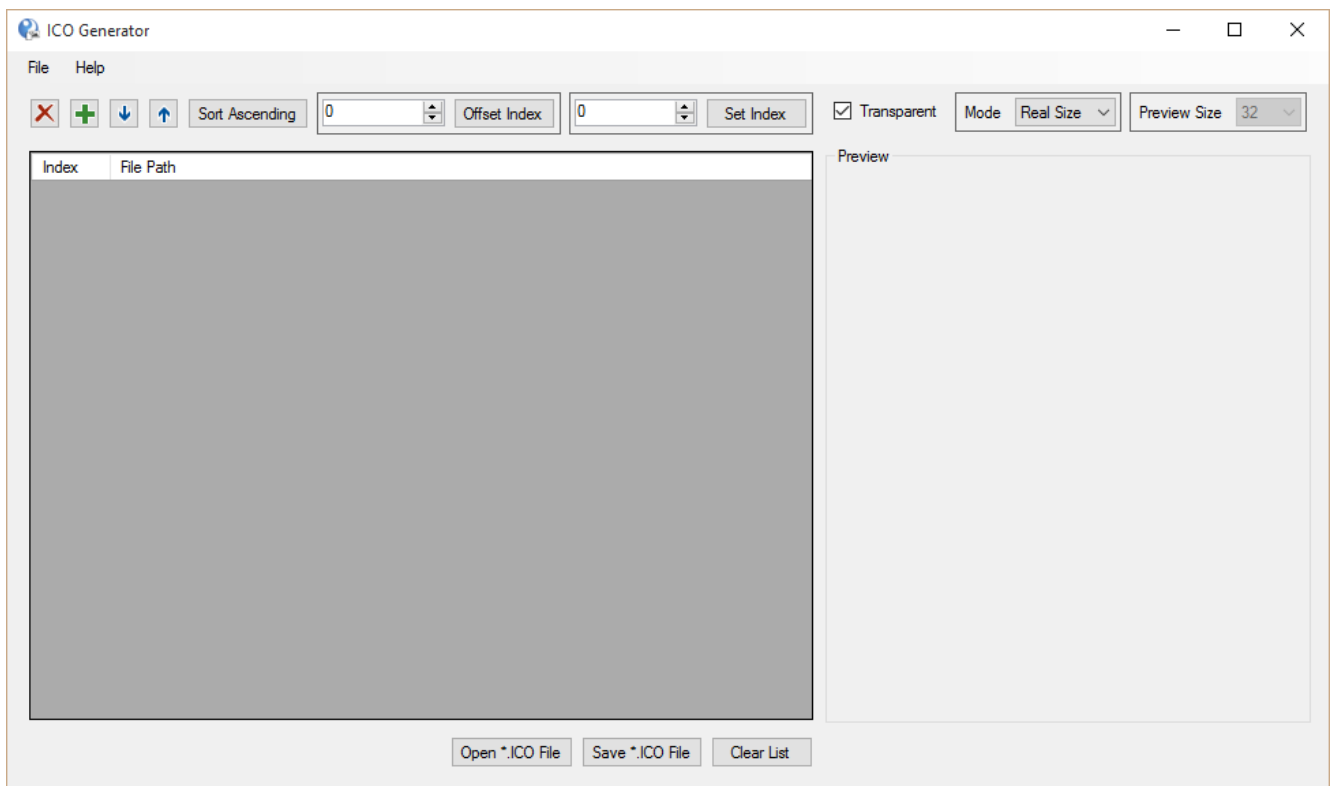


Figure 1 - ICO Generator

After adding images and icons to the icon list (Figure 1), the user may reorder, preview, remove (and clear the list) and save a new .ICO file. The Icon ID, or Index, of each icon defines its position on the file, and no index overlapping is allowed. If the user tries to save a list which contains index overlapping, they have to option to ignore the overlapping files, as shown in Figure 2.

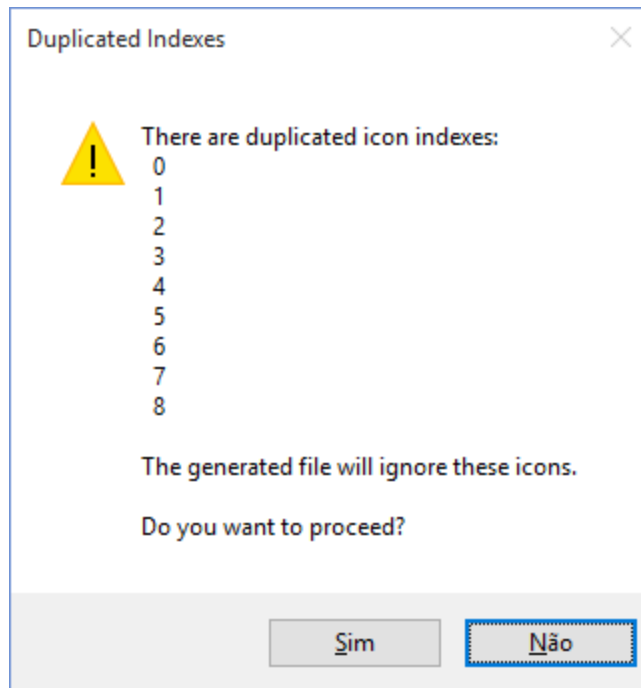


Figure 2 - Duplicated indexes warning message

To generate and save a new .ICO file, click the [**Save *.ICO File**] button.

2.2 Add image files and .ICO files

To add an image file to the icon list, click the **[+]** button, and select the desired files. Image files must not exceed 255x255 pixels.

An icon is not inherently transparent; the transparency options are set by each icon tool used on the UnicView softwares/firmwares (AD and RD). The transparent color of an image is defined by its first (top-left) pixel. Thus, if transparency effect is desired, make sure to create an image where the top-left pixel has the same color as the background.

To import the icons from an existing .ICO file, click the **[Open *.ICO File]** button, and select the desired file. The imported icons' indexes will be their original indexes.

2.3 Icon Order

The icon order, defined by the Index column (also called IconID) may be freely changed, as long as there are no overlapping. The indexes may be changed by several methods: **Incremental**, **Offset** and **Immediate Set**. Any of these methods alters only the currently selected files. The files are selected by clicking their respective rows, and the CTRL and SHIFT modifier keys may be held while clicking to select many at once.

Index range: Minimum = 0, Maximum = 8191.

- The **Incremental** method uses the Up [↑] and Down [↓] buttons, to increment and decrement by one, respectively, each selected index.
- The **Offset** method increments or decrements all selected indexes by an arbitrary amount (positive or negative). First set the desired amount, then click the [Offset Index] button.

For example:

Import the “20_batt.ICO” file (Figure 3).

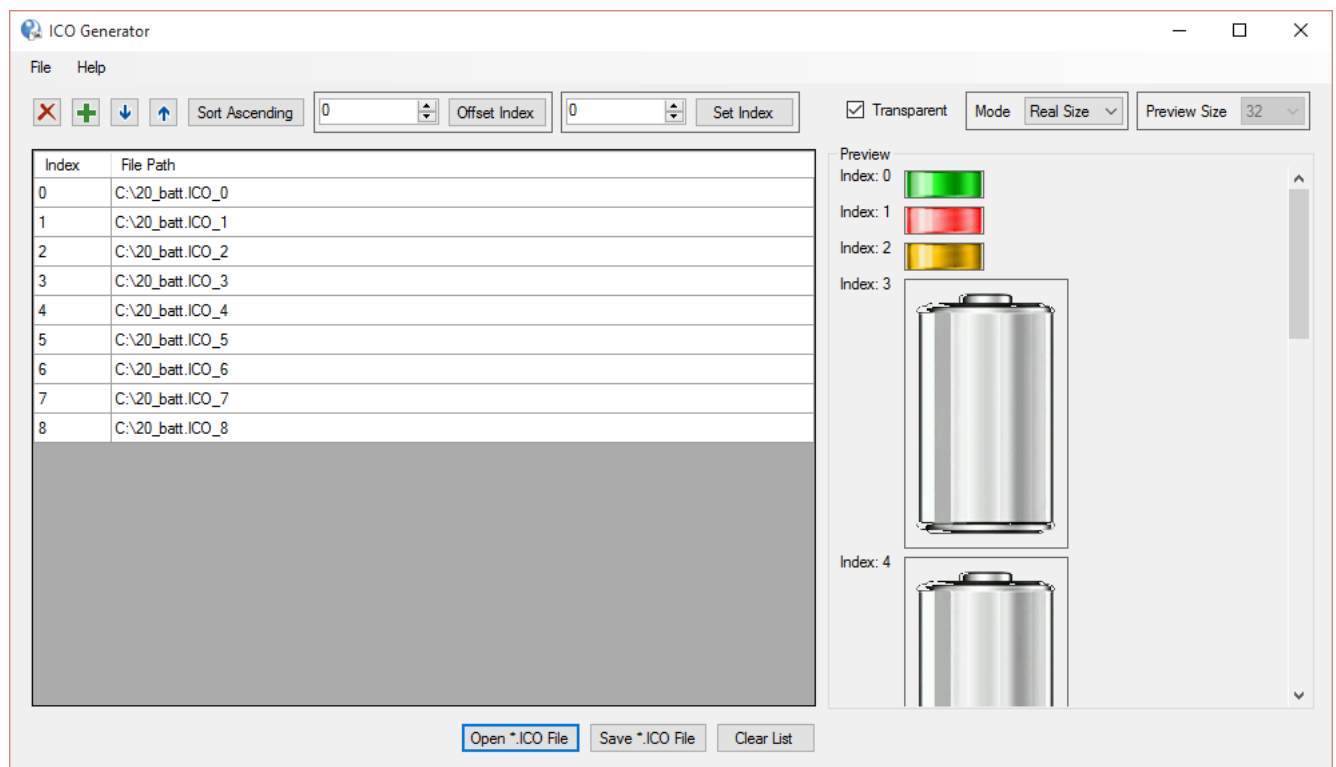


Figure 3 - First .ICO file imported

Import the “30_grass.ICO” file (Figure 4). The list now contains overlapping indexes.

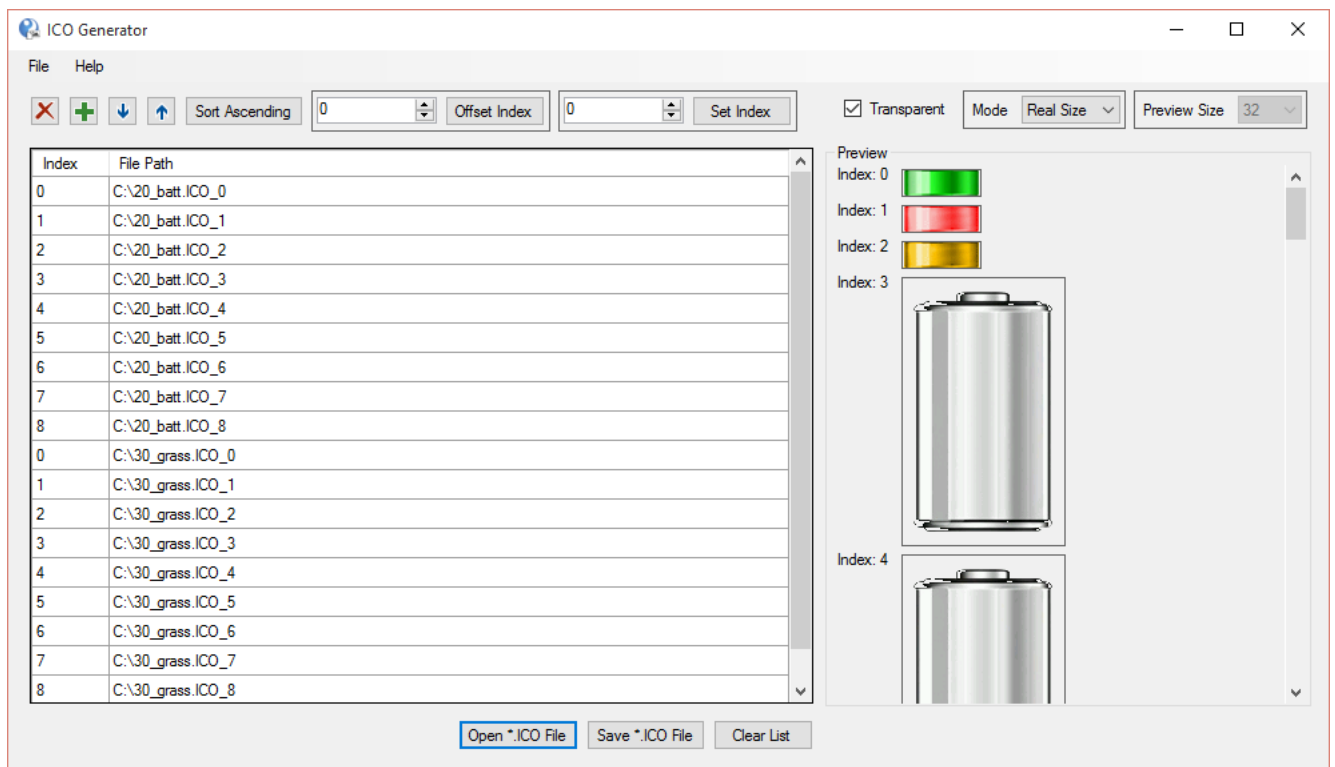


Figure 4 - Second .ICO file imported

Select all “30_grass.ICO” icons, and set the offset value to 10 (Figure 5).

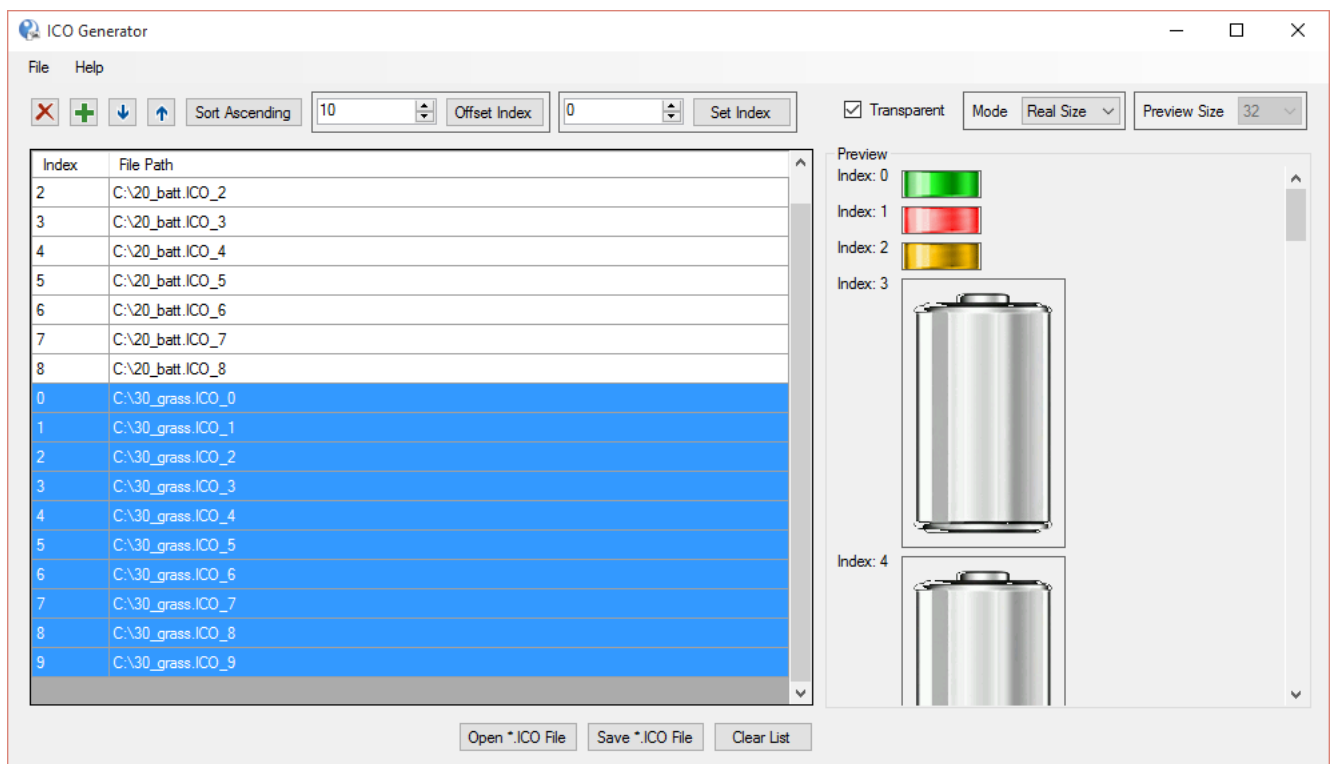


Figure 5 - Second .ICO file icons selected

Click the [**Offset Index**] button (Figure 6). There is no more overlapping indexes, and the new .ICO file may be successfully saved.

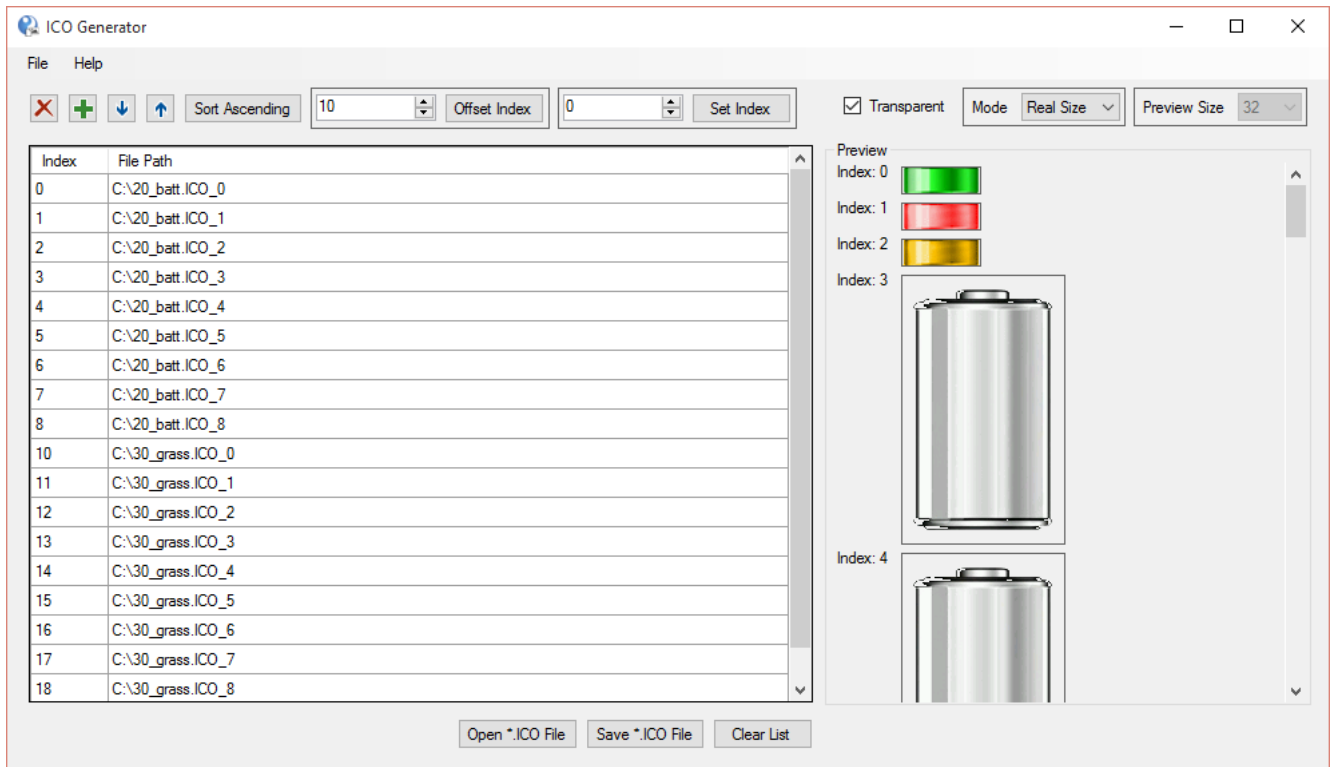


Figure 6 - Offset applied

- Finally, the **Immediate Set** method sets all the selected indexes to the specified value. It is usually used on single icons.

2.4 Preview Settings

There are two sizing preview modes: “Real Size” and “Square”. On “Real Size” mode, each icon is shown in its actual dimensions. On “Square” mode, all the icons are inscribed in a square window of size defined by the “Preview Size” setting (32, 64, 128 and 256 pixels). This mode is useful for quickly checking all icons, or for inspection of small sized ones.

There is also the “Transparent” mode. If enable, the background color (top-left pixel) will be removed from the icon preview, making it easy to verify if transparency will work properly when the icon is drawn on the LCM.

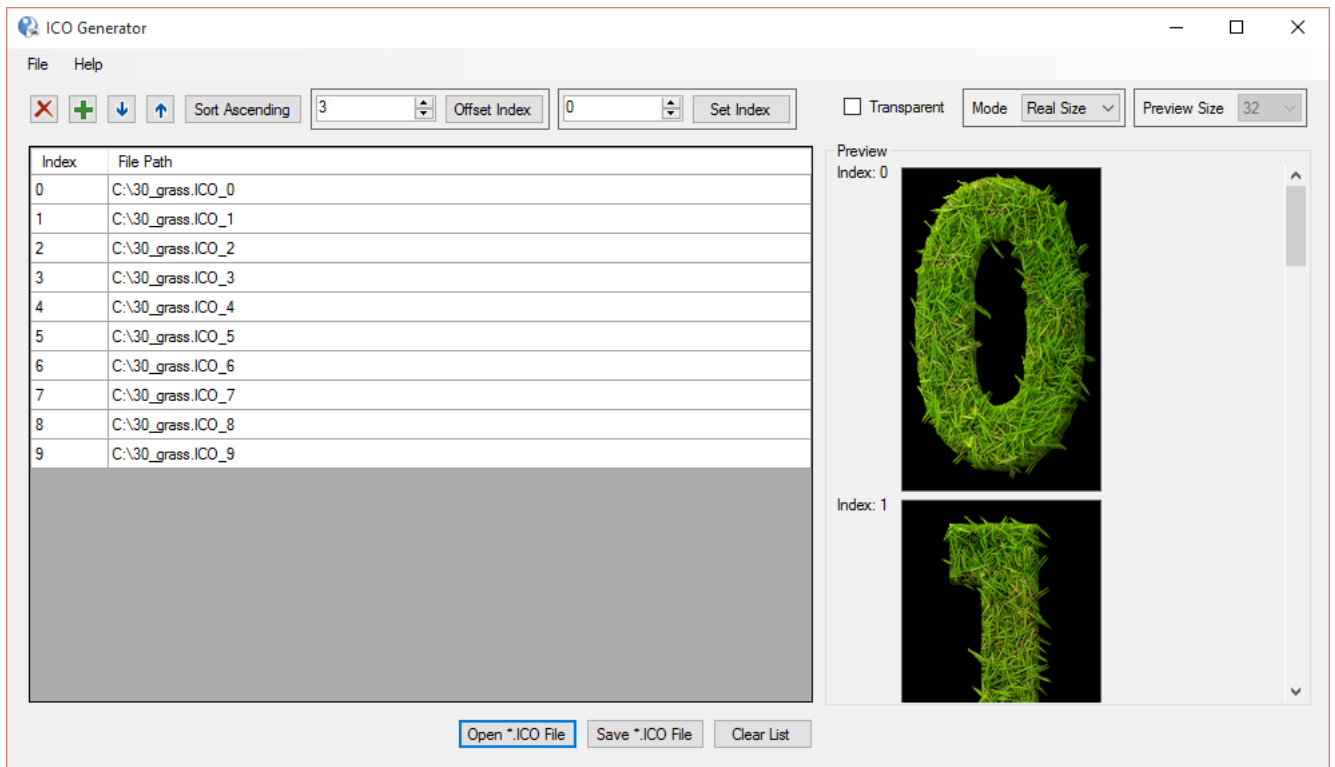


Figure 7 - Transparency mode off

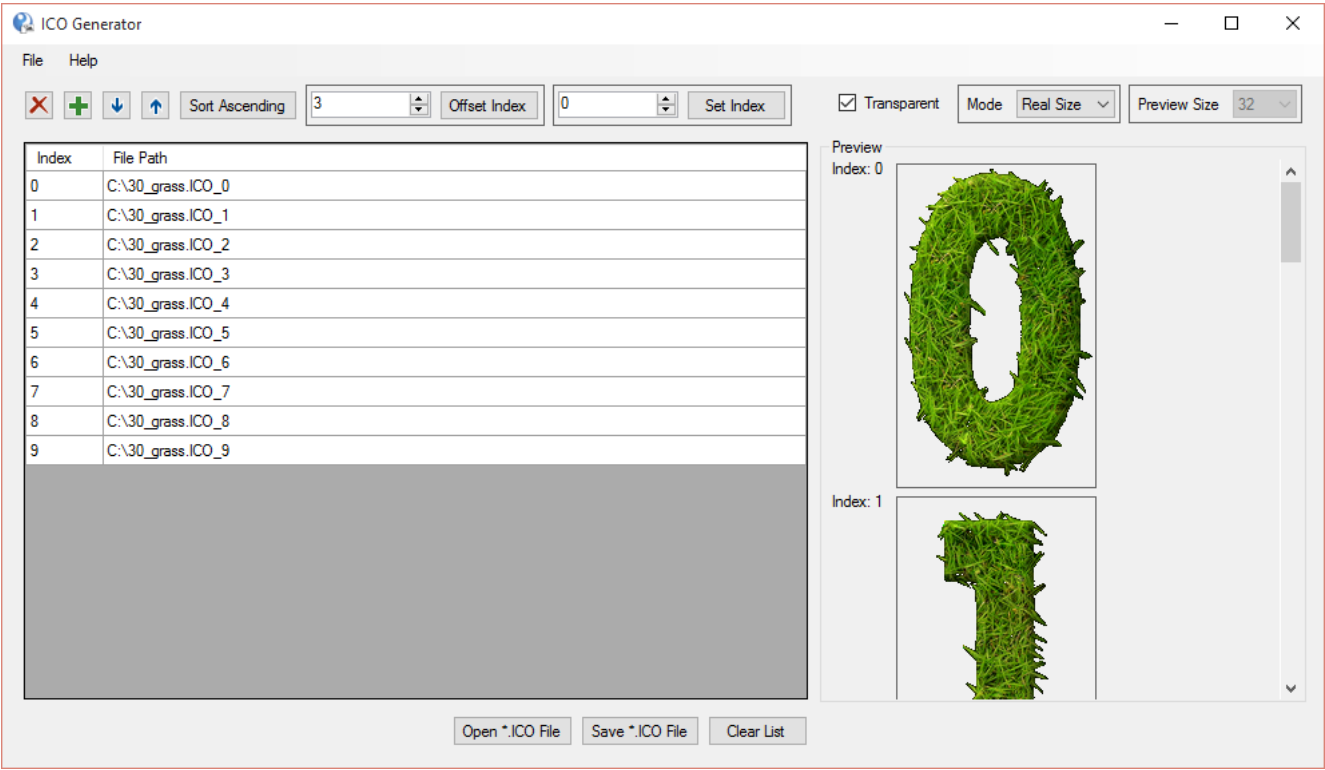


Figure 8 - Transparency mode on

The Preview area may take several seconds to update after any setting changes if the list contains many large icons.

3 Troubleshooting

3.1 Error Report

In case of unexpected software failure, feature requests or suggestions, please contact Proculus Technologies Customer Support.

Customer Support e-mail address: support@proculustech.com